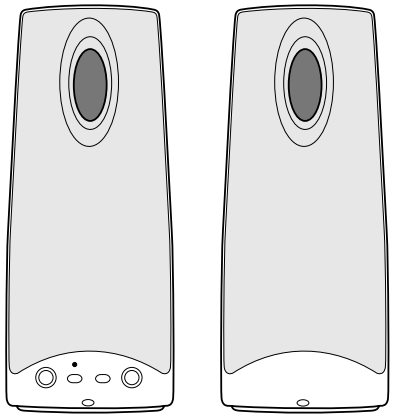
aiwa SERVICE

SC-A48

AEZ(B),AK(B)



SERVICE MANUAL

ACTIVE SPEAKER

aiwa

S/M Code No. 09-994-328-6N4

DATA

SPECIFICATIONS

Power requirements	Domestic AC power using the supplied AC adaptor
Speakers	77 mm full range antimagnetic type speakers/ 4 Ω (2)
Power output	Rated: 4 W + 4 W (4 Ω, T.H.D. 1%, 1kHz)
Frequency response	70 Hz – 20 kHz
Input terminals/sensitivity	INPUT: 300 mV/5 kΩ, stereo mini-plug (1)
Dimensions (W/H/D)	85 × 210 × 160 mm
Weight	L: 582 g/R: 682 g

- Design and specifications are subject to change without notice.

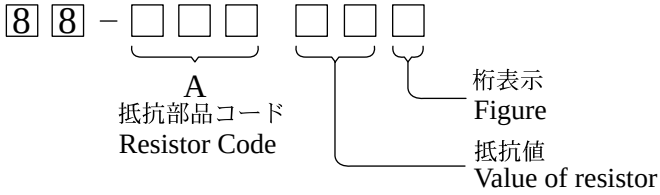
ELECTRICAL MAIN PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-017-982-010		IC,BA5412
	87-A20-946-040		C-IC,MM1434XF
	87-017-888-080		IC,NJM4558MD
TRANSISTOR			
	89-318-155-080		TR,2SC1815 (0.4W)
DIODE			
	87-017-120-080		150-HZS9C3,ZENER HZS9C
	87-020-465-080		DIODE,1SS133 (110MA)
	87-017-978-080		DIODE,1N4003
MAIN C.B			
C1	87-010-178-080		CHIP CAP 1000P
C2	87-010-178-080		CHIP CAP 1000P
C3	87-010-401-080		CAP, ELECT 1-50V
C4	87-010-401-080		CAP, ELECT 1-50V
C5	87-010-401-080		CAP, ELECT 1-50V
C6	87-010-401-080		CAP, ELECT 1-50V
C7	87-010-405-080		CAP, ELECT 10-50V
C8	87-010-402-080		CAP, ELECT 2.2-50V
C9	87-010-197-080		CAP, CHIP 0.01 DM
C10	87-010-197-080		CAP, CHIP 0.01 DM
C11	87-010-197-080		CAP, CHIP 0.01 DM
C12	87-010-197-080		CAP, CHIP 0.01 DM
C13	87-010-405-080		CAP, ELECT 10-50V
C14	87-010-405-080		CAP, ELECT 10-50V
C17	87-010-400-080		CAP, ELECT 0.47-50V
C18	87-010-400-080		CAP, ELECT 0.47-50V
C22	87-010-405-080		CAP, ELECT 10-50V
C23	87-010-178-080		CHIP CAP 1000P
C24	87-010-178-080		CHIP CAP 1000P
C25	87-010-237-080		CAP, ELECT 1000-16V
C26	87-010-237-080		CAP, ELECT 1000-16V
C27	87-010-380-080		CAP, ELECT 47-16V
C28	87-010-380-080		CAP, ELECT 47-16V
C29	87-010-380-080		CAP, ELECT 47-16V
C30	87-010-380-080		CAP, ELECT 47-16V
C33	87-010-384-080		CAP, ELECT 100-25V
C34	87-010-405-080		CAP, ELECT 10-50V
C35	87-010-101-080		CAP, ELECT 220-16
C36	87-010-405-080		CAP, ELECT 10-50V
C37	87-010-385-080		CAP, ELECT 220-25V
C38	87-010-405-080		CAP, ELECT 10-50V
C39	87-010-401-080		CAP, ELECT 1-50V
C40	87-010-401-080		CAP, ELECT 1-50V
C41	87-016-081-080		C-CAP,S 0.1-16 RK
C42	87-010-260-080		CAP, ELECT 47-25V
C43	87-010-379-080		CAP, ELECT 22-16V
J1	87-099-399-010		JACK,DC TYPE-4 N-EIAJ
J2	87-YP6-609-010		JACK,3.5 BLK ST
PIN1	85-SP3-629-010		CORD,PLUG 3.5 ST B
PIN2	85-SP5-612-010		CORD,PLUG 3.5 MO B
⚠PR1	87-A90-726-080		PROTECTOR,1.6A 491SERIES 60V
S1	84-SP3-623-010		SW,PUSH 2-2-2
S2	84-SP3-623-010		SW,PUSH 2-2-2
SP1	88-YP7-604-010		SPKR,77MM 4OHM
SP2	88-YP7-604-010		SPKR,77MM 4OHM
VR1	87-YP5-622-010		104-10KA-11001,VR RTRY 10KAX2
VR2	87-YP5-622-010		104-10KA-11001,VR RTRY 10KAX2
LED C.B			
D4	88-YP6-615-010		153-L-34GD,LED L-34GD GRN

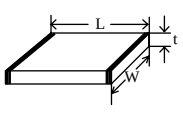
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

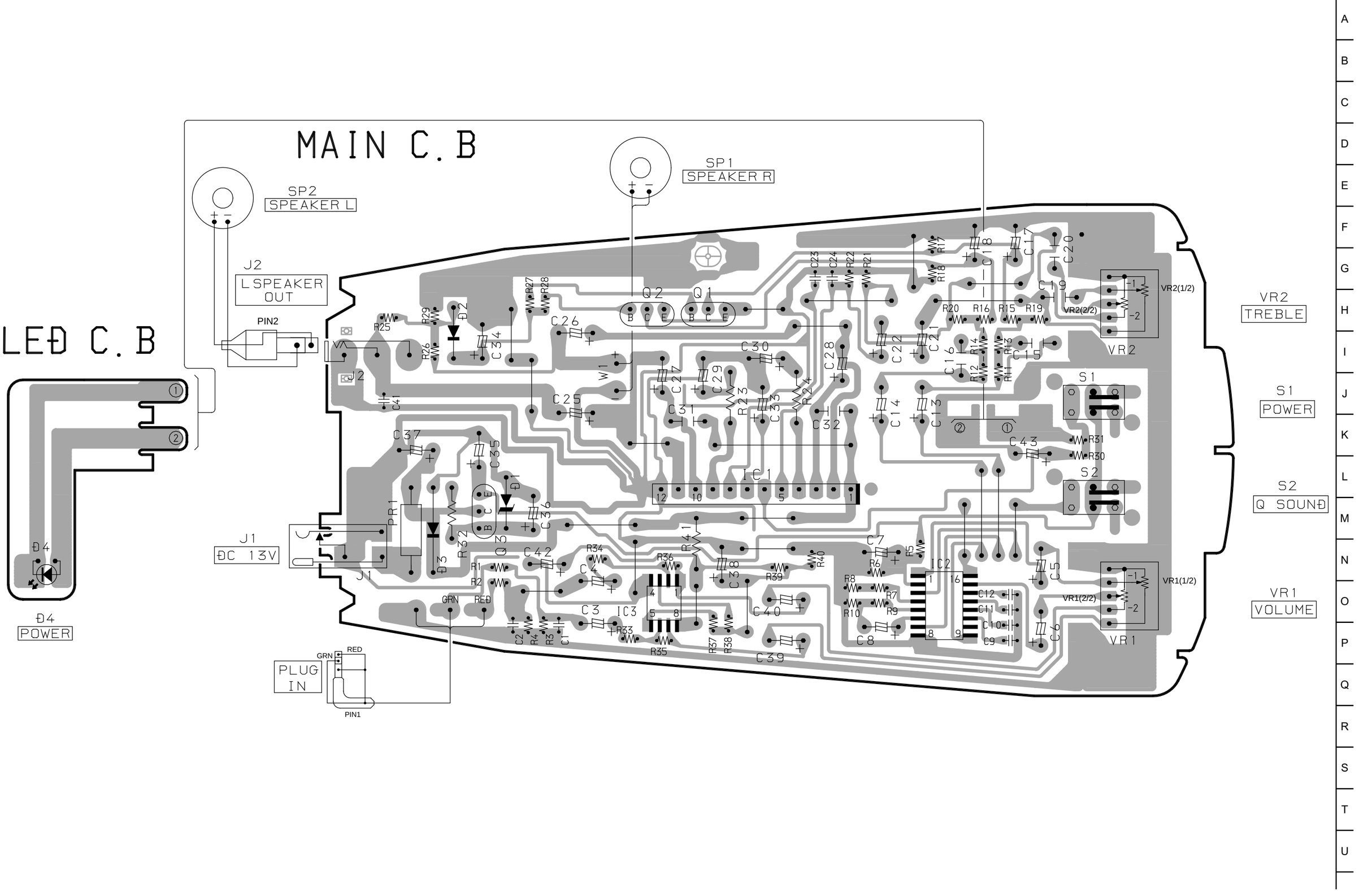
○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

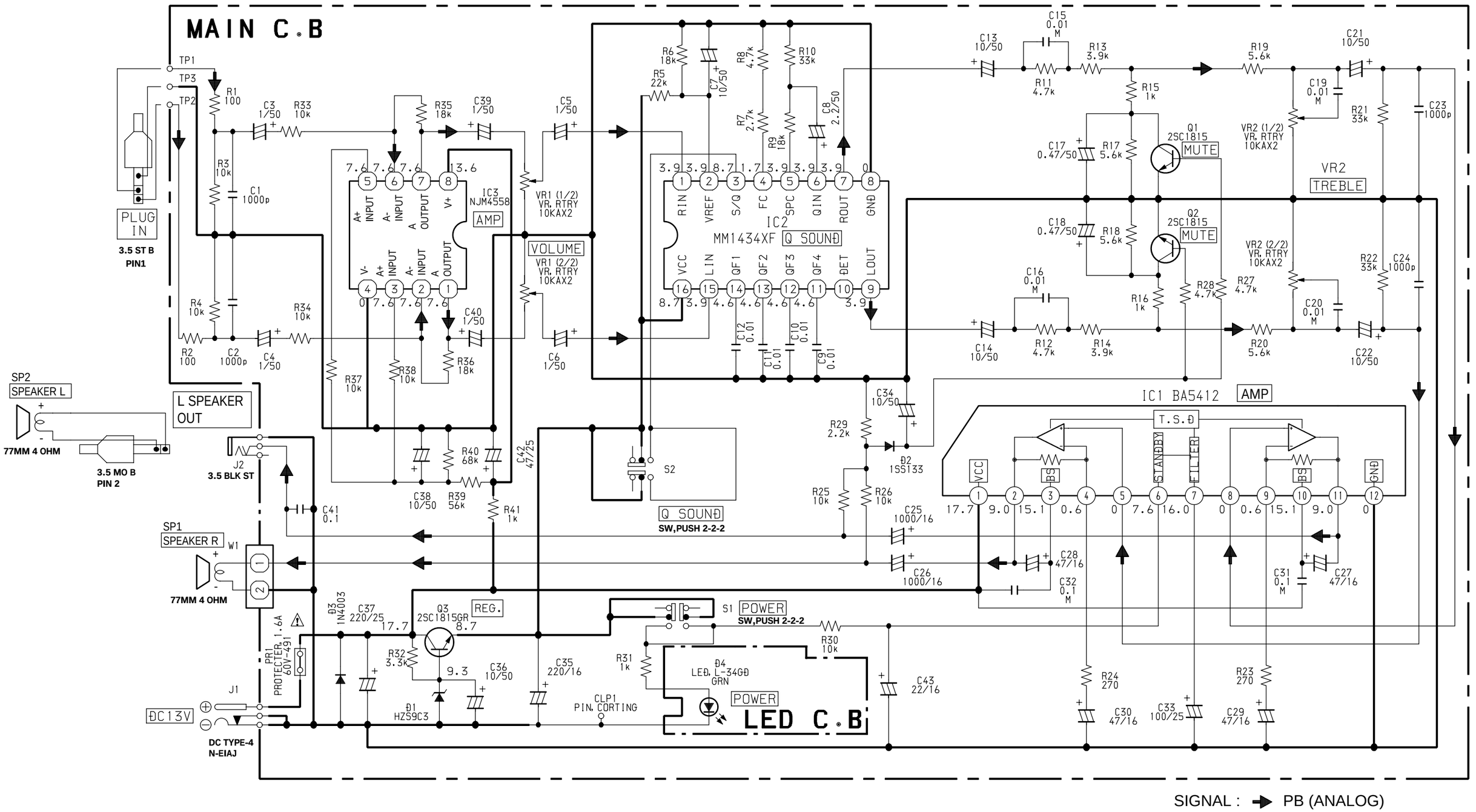


チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

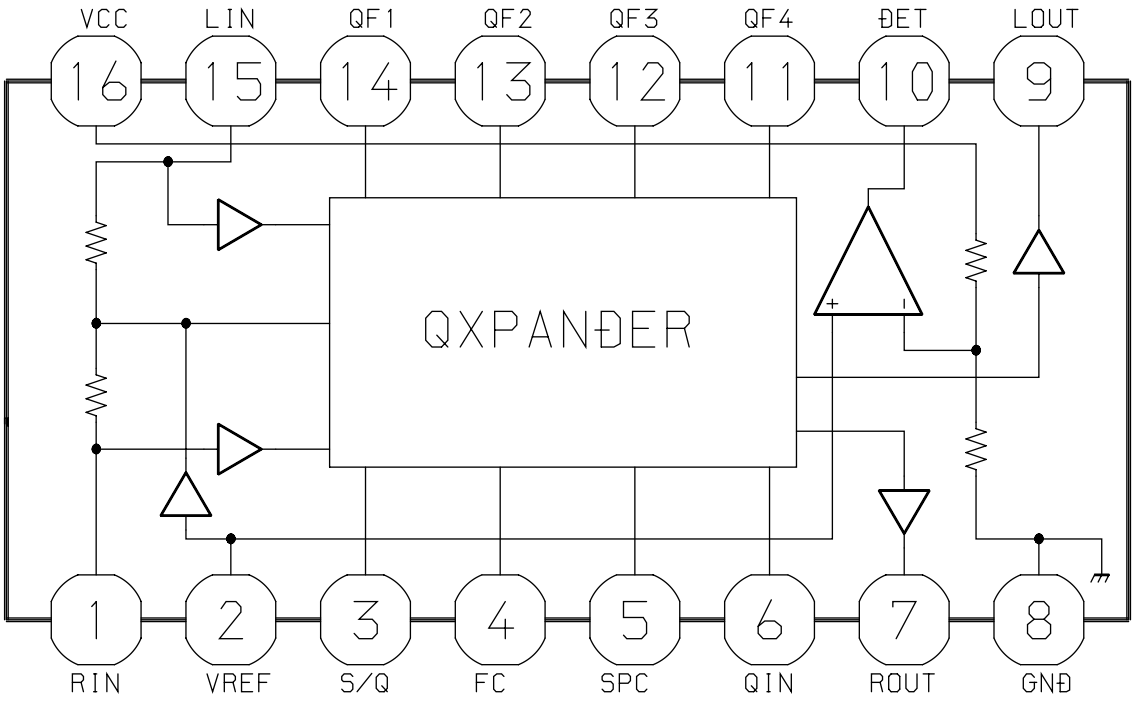

MAIN C.B
LED C.B
SP1
SPEAKER R
SP2
SPEAKER L
J2
L SPEAKER
OUT
PIN2
J1
ĐC 13V
Đ4
POWER
PLUG
IN
GRN
RED
PIN1
VR2
TREBLE
S1
POWER
S2
Q SOUND
VR1
VOLUME
VR2(1/2)
VR2(2/2)
VR1(1/2)
VR1(2/2)
Q1
Q2
IC1
IC2
IC3

SCHEMATIC DIAGRAM-1/1

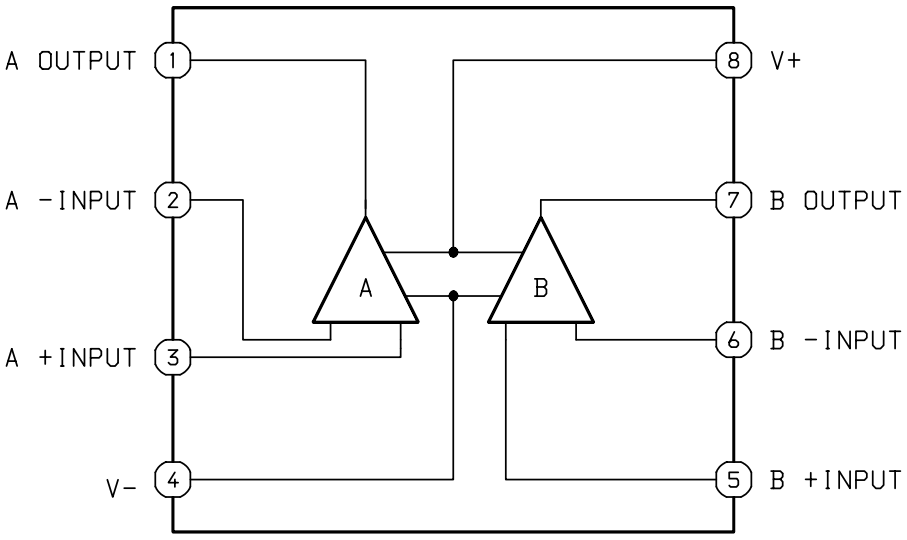


SIGNAL : ➡ PB (ANALOG)

IC BLOCK DIAGRAM-1/1
IC, MM1434XF



IC, NJM4558MD

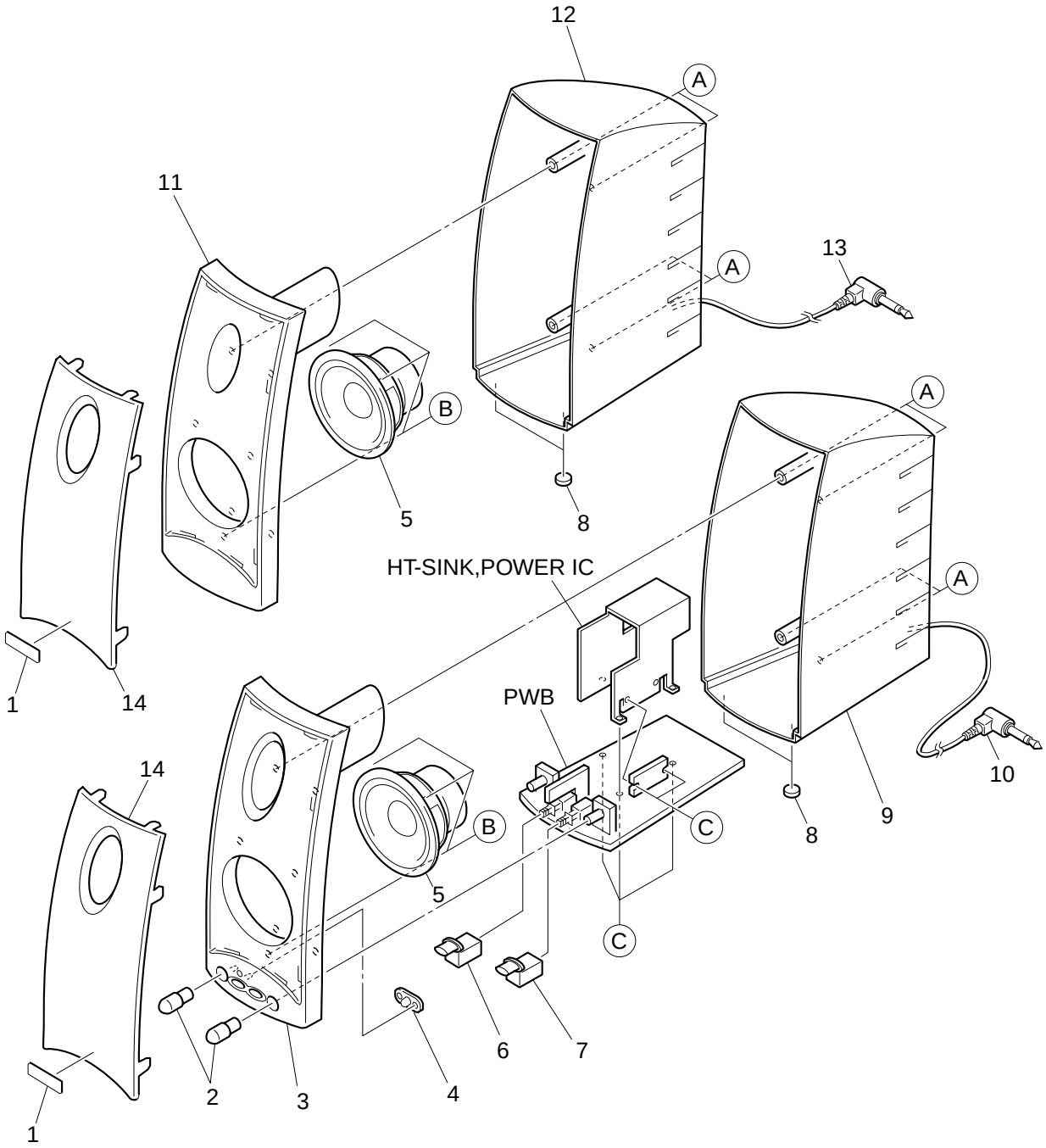


TRANSISTOR ILLUSTRATION-1/1

ECB

2SC1815

MECHANICAL EXPLODED VIEW-1/1



MECHANICAL PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	81-CD1-032-010		BADGE,AIWA 30J
2	88-YP7-012-010		40A-1VK8YP-7B,KONB RTRY
3	88-YP7-003-010		40B-RFA48-UB,CABI FRONT
4	88-YP7-017-010		45A-1W8YP-7,WINDOW LE
5	88-YP7-604-010		SPKR,77MM 4OHM
6	88-YP7-014-010		40A-1PK8YP-7B,BTN POWER
7	88-YP7-016-010		40A-1SK8YP-7B,BTN QSOUND
8	88-YP7-202-010		430-8YP-7,FOOT REAR
9	88-YP7-007-010		40B-RCA48-UB,CABI REAR
10	85-SP3-629-010		CORD,PLUG 3.5 ST B
11	88-YP7-004-010		40B-LFA48-UB,CABI REAR
12	88-YP7-008-010		40B-LCA48-UB,CABI REAR
13	85-SP5-612-010		CORD,PLUG 3.5 MO B
14	88-YP7-024-010		331-8YP-7B,GRILLE FRONT
A	87-067-822-010		BVT2+3-20 W/O SLOT
B	87-067-945-110		VFT2+3-12(F10)
C	87-067-703-010		TAPPING SCREW, BVT2+3-10

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

ACCESSORIES/PACKAGE LIST-1/1

REF. NO		PART NO.	KANRI NO.	DESCRIPTION
⚠	1	87-B30-503-010		**AC ADAPTOR,AC-D1301EZNC<AEZBC>**
⚠	1	87-B30-293-010		**AC ADAPTOR,AC-D1301KNC<AKBC>**

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2–11, IKENOHATA 1–CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111

H251941